

Work Order ID 135085 -1

Tuesday, July 28, 2015 3:27:45 PM

647.7501
B135085

135085

Ship ASAP

Page 1

Item ID: 647.7501

Revision ID:

Item Name: Lower Cutter Assembly

Start Date: 7/28/15 Start Qty: 3.00

Required Date: 8/12/15 Req'd Qty: 3.00

Reference:

REV. A

Accept

N900040100

Setup Start

NS1

Stop

NS2

Cust Item ID:

Customer:

Approvals:

Process Plan:

Date:

15-7-28

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

NR1

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

647.7500

A

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

120

Small Fab

Memo

0.00

Small Fab

Assemble as per dwg and apply loctite 598 on all faying surfaces per note 2.

A/R RTV LOCTITE 598: 131311
exp. date: 11/16

DAS
41
9-89

15-8-21

130

QC5- Inspect part completeness to step on W/O

0.00

130

QC

Memo

0.00

Quality Control

DAS
38
9-89

AUG 21 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 135085

Tuesday, July 28, 2015 3:27:45 PM

135085

Page 2

Item ID: 647.7501 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Lower Cutter Assembly
 Start Date: 7/28/15 Start Qty: 3.00 ***3*** Cust Item ID:
 Required Date: 8/12/15 Req'd Qty: 3.00 ***3*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Identify as per dwg & Stock Location: <u>Ship</u>	0.00							
140									
Packaging	Memo	0.00							
Packaging	***IDENTIFY AS PER APICAL MPP-120 BY STAMPING THE P# AND REV***								
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	0.01							
Quality Control									

15/08/21 SL

MLJ AUG 21 2015

SLA 20150821

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

Picklist Print

Tuesday, July 28, 2015 3:27:57 PM

Page 1

Work Order ID: 135085

135085

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 7/28/15

Required Date: 8/12/15

Start Qty: 3.00

Required Qty: 3.00

Comments: IPP REV:A 12.10.04 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7813		Manufactured	No				Each	10.0000		3	DAS 30 9-89		AUG 20 2015

647 7813

Center Plate, Lower

**

Location

Loc Qty

Loc Code

CCK113

10

113877

6

119679

4

647.7810

Manufactured

No

Each

0.0000

3

DAS
30
9-89

AUG 20 2015

647 7810

Bracket A

647.7811

Purchased

No

Each

0.0000

3

DAS
30
9-89

AUG 20 2015

647 7811

Bracket B

646.3015

Manufactured

No

Each

4.0000

6

DAS
30
9-89

AUG 20 2015

646 3015

Blade

**

Location

Loc Qty

Loc Code

MF

4

107664

1

131607

3

Each

0.0000

3

DAS
41
9-89

15-8-20

647.7601

Purchased

No

647 7601

Lower Deflector Assembly

**

135202

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																			
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Picklist Print

Tuesday, July 28, 2015 3:27:57 PM

Page 2

Work Order ID: 135085

135085

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 7/28/15

Required Date: 8/12/15

Start Qty: 3.00

Required Qty: 3.00

647.7815	Purchased	No	Each	6.0000	3	DAS 30 9-89	AUG 20 2015
647 7815							
Fwd Bracket							

**

Location

Loc Qty

Loc Code

CCK113

6

113878

6

3

647.7814	Purchased	No	Each	6.0000	3	DAS 30 9-89	AUG 20 2015
647 7814							
Fwd Bracket							

**

Location

Loc Qty

Loc Code

CCK113

6

113879

6

3

647.7816	Manufactured	No	Each	5.0000	3	DAS 30 9-89	AUG 20 2015
647 7816							
Aft Bracket							

**

Location

Loc Qty

Loc Code

CCK113

5

120938

5

3

647.7817	Manufactured	No	Each	5.0000	3	DAS 30 9-89	AUG 20 2015
647 7817							
Aft Bracket							

**

Location

Loc Qty

Loc Code

CCK113

5

123826

5

3

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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OTHER : _____																					

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Work Order ID: 135085

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Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 7/28/15

Required Date: 8/12/15

Start Qty: 3.00

Required Qty: 3.00

NAS1149FN832P

Purchased

No

Each

3,001.000

~~78~~

NAS1149FN832P

Washer

DAS
41
9-20

15-8-21

Location

Loc Qty

Loc Code

ST260a

1704

125268

1704

st268

1297

125268

376

M130388

921

~~20~~

MS21042-3

MS21042L3

Purchased

No

Each

585.0000

~~9~~

MS21042-3

Nut / use MS21042L3

DAS
41
9-20

15-8-21

132883

3

Location

Loc Qty

Loc Code

CA

501

M129682

501

ST305

84

6931

8

M128770

10

M129541

15

M130388

51

MS21042-08

MS21042L08

Purchased

No

Each

33.0000

~~32~~

MS21042-08

USE MS21042L08

DAS
41
9-20

15-8-21

131697

13

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

Tuesday, July 28, 2015 3:27:57 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐								
Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval					
Description Work Order Deviation				Disposition				Completed By				
								Lead hand / Supervisor Approval Verification				
												QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY										
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐							
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐							
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐							
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐							
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐							
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐							
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐							
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐							
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐							
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐							
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____										
Misidentified ☐	Past Due ☐											

Picklist Print

Tuesday, July 28, 2015 3:27:57 PM

Page 4

Work Order ID: 135085

135085

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 7/28/15

Required Date: 8/12/15

Start Qty: 3.00

Required Qty: 3.00

NAS1149F0332P

Purchased

No

Each

2,084.000

~~18~~

DAS

NAS1149F0332P

41
9-80

15-8-21

Washer

Location

Loc Qty

Loc Code

GA

222

122063

222

ST260a

1769

m128401

6

m131026

80

m131697

1683

6

st268

93

123900

7

m130388

86

MS27039-08-19

Purchased

No

Each

427.0000

21

DAS

MS27039-08-19

41
9-80

15-8-21

Screw

Location

Loc Qty

Loc Code

ST273A

395

m131317

395

7

ST281

32

m127904

3

m131264

29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

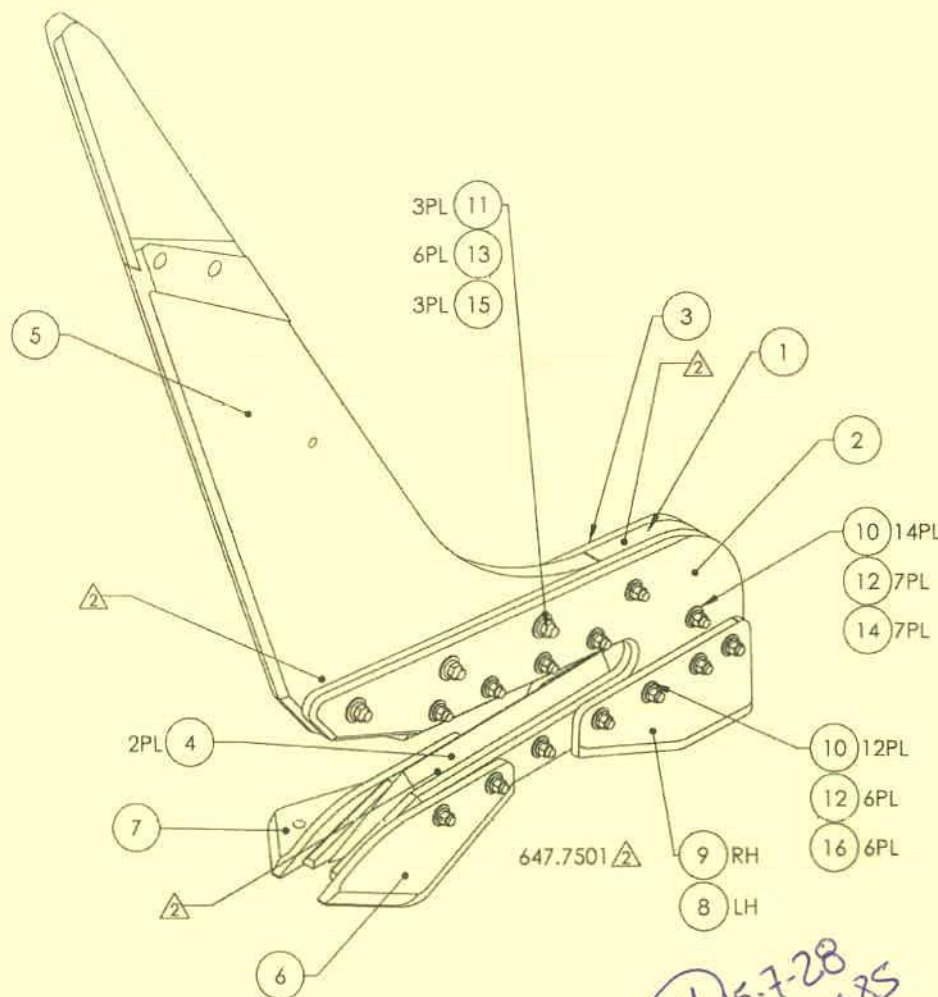
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
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Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
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Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																							
Misidentified ☐	Past Due ☐																								

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NOTES:

1. IDENTIFY IAW MPP-120
2. APPLY F/N 17 AS REQUIRED TO ALL FAYING SURFACES UPON ASSEMBLY



REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION P22	N/C	
N/C	INITIAL RELEASE	12/21/04	P. BRAYO
A	INCORPORATED FOR ISPH	02/19/05	P. BRAYO

A/R	17	601.2045	RTV, LOCTITE 598		
6	16	601.3124	SCREW	MS27039-0824	
3	15	601.1948	SCREW	MS27039-1-19	
7	14	601.2765	SCREW	MS27039-0819	
6	13	601.1607	WASHER	NAS1149F0332P	
13	12	601.2973	LOCKNUT	MS21042-08	
3	11	601.2943	LOCKNUT	MS21042-3	
26	10	601.2764	WASHER	NAS1149FN832P	
1	9	647.7817	AFT BRACKET		
1	8	647.7816	AFT BRACKET		
1	7	647.7814	FORWARD BRACKET		
1	6	647.7815	FORWARD BRACKET		
1	5	647.7601	LOWER DEFLECTOR ASSY		
2	4	646.3015	BLADE		
1	3	647.7811	BRACKET B		
1	2	647.7810	BRACKET A		
1	1	647.7813	CENTER PLATE LOWER		
7501	FIND #	647.7501	LOWER CUTTER ASSY		2
QTY	PART #	DESCRIPTION	MAT'L	SPEC.	

NEXT ASSY (S)		PARTS LIST	
647.7300		APICAL INDUSTRIES	
		2608 TEMPLE HEIGHTS DR.	
		OCEANSIDE, CA. 92036-3512	(760)724-5300
		LOWER CUTTER ASSY	
		REV. 8	647.7500
		SCALE NONE	SHEET 1 OF 2

15-7-28
135085

Picklist Print

Tuesday, July 28, 2015 3:27:57 PM

Page 5

Work Order ID: 135085

135085

Parent Item: 647.7501

647 7501

Parent Item Name: Lower Cutter Assembly

Start Date: 7/28/15

Required Date: 8/12/15

Start Qty: 3.00

Required Qty: 3.00

MS27039-1-19

Purchased

No

Each

266.0000

9

DAS

MS27039-1-19

41

9-80

15-8-21

Screw

Location

Loc Qty

Loc Code

GA

124

m124326

32

m127904

92

ST273A

135

m127904

135

ST284

7

m127904

7

3

MS27039-08-24

Purchased

No

Each

440.0000

18

DAS

MS27039-08-24

41

9-80

15-8-21

Screw (MS27039-0824)

Location

Loc Qty

Loc Code

ST273A

297

124326

297

ST281

143

125654

143

6

DQA: _____ Date: _____



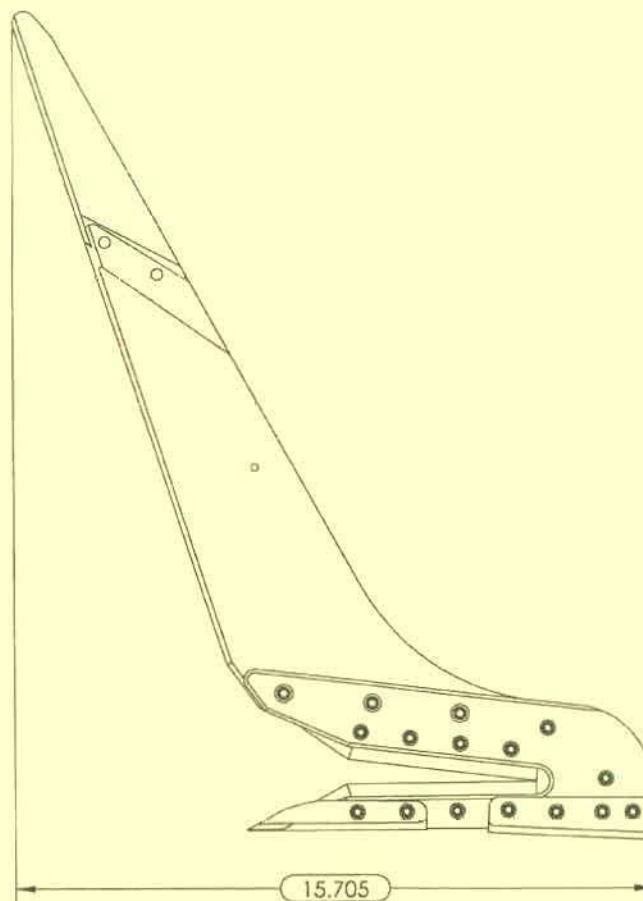
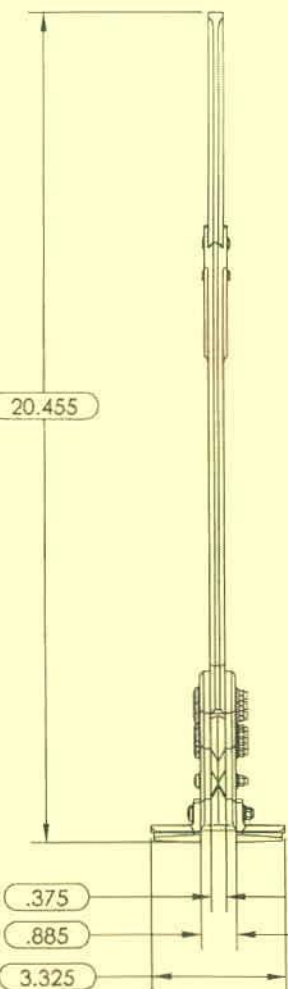
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval				
Description Work Order Deviation				Disposition				Completed By			
								Lead hand / Supervisor Approval Verification			
								QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐						
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐						
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐						
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐						
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐						
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Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐						
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Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐						
Past Expiry Date ☐	Manufacturing Process ☐										
Misidentified ☐	Past Due ☐	OTHER :									

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ORIGINAL DATE 11-24-88		APICAL INDUSTRIES	
DESIGNED BY A. GIAN		2608 TEMPLE HEIGHTS DR.	
DRAWING APPROVAL P. BRAY		OCEANSIDE, CA. 92056-3512 (760)724-5300	
CONTRACT NO.		LOWER CUTTER ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		REV. A	
TOLERANCES ARE		SCALE NONE	SHEET 2 OF 2
3 PLACE DECIMALS & .015			
ANGLES & 5°			